

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 1 of 3

Complete if Known

Application Number	Not yet assigned
Filing Date	On even date herewith
First Named Inventor	Reshef TENNE et al
Parent Group Art Unit	1754
Examiner Name	
Attorney Docket Number	TENNE=3A

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
	AA	4,055,630		McCoy et al	October 1977	
	AB	4,299,892		Dines et al	November 1981	
	AC	4,390,514		Chianelli et al	June 1983	
	AD	4,548,800		Badesha et al	October 1985	
	AE	4,676,969		Smith	June 1987	
	AF	5,958,358		Tenne et al	September 1999	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Number			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ³
		Office ³	Number	Kind Code ⁵ (if known)				
	AG	EP	0 580 019	B1	Yeda Research and Dev. Co.	01-26-1994		
	AH	WO	97/44278	A1	Yeda Research and Dev. Co.	11-27-1997		
	AI	WO	98/23796	A1	Yeda Research and Dev. Co.	06-04-1998		

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
	AJ	Y. FELDMAN et al., "High-Rate, gas-Phase Growth of MoS ₂ Nested Inorganic Fullerenes and Nanotubes", <u>Science</u> , January 13, 1995, pp. 222-225, vol. 267	
	AK	Y. FELDMAN et al., "Bulk Synthesis of Inorganic Fullerene-like MS ₂ (M=Mo, W) from the Respective Trioxides and the Reaction Mechanism", <u>Journal of the American Chemical Society</u> , 1996, pp. 5362-5367, vol. 118, no. 23	
	AL	M. HERSHFINKEL et al., "Nested Polyhedra of MX ₂ (M=W, Mo; X=S, Se) Probed by High-Resolution Electron Microscopy and Scanning Tunneling Microscopy", <u>Journal of the American Chemical Society</u> , 1994, pp. 1914- 1917, vol. 116	
	AM	M. REMSKAR et al., "MoS ₂ as Microtubes", <u>Appl. Phys. Lett.</u> , July 15, 1996, vol. 69, no. 3	
	AN	M. REMSKAR et al., "New Crystal Structures of WS ₂ : Microtubes, Ribbons, and Ropes", <u>Adv. Mater.</u> , 1998, pp. 246-249, vol. 10, no. 3	
	AO	M. REMSKAR et al., "Stabilization of the Rhombohedral Polytype in MoS ₂ and WS ₂ Microtubes: TEM and AFM Study", <u>Surface Science</u> , 1999, pp. 637-641, vol. 435	
	AP	M. REMSKAR et al., "Syntactic Coalescence of WS ₂ Nanotubes", <u>Applied Physics Letters</u> , June 14, 1999, pp. 3633-3635, vol. 74, no. 24	
	AQ	R. TENNE et al., "Polyhedral and Cylindrical Structures of Tungsten Disulphide", <u>Nature</u> , December 1992, pp. 444-445, vol. 360	
	AR	C.M. ZELENSKI et al., "Template Synthesis of Near-Monodisperse ¹ Microscale Nanofibers and Nanotubules of MoS ₂ ", <u>J. Am. Chem. Soc.</u> , 1998, pp. 734-742, vol. 120	

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* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Substitute for form 1449A/PTO <h2 style="text-align: center;">INFORMATION DISCLOSURE STATEMENT BY APPLICANT</h2> <p style="text-align: center;">(use as many sheets as necessary)</p>		Complete if Known	
Application Number		Not yet assigned	
Filing Date		On even date herewith	
First Named Inventor		R. TENNE et al	
Parent Group Art Unit		1754	
Confirmation No.			
Attorney Docket Number		TENNE=3A	

Sheet	2	of	3
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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
	AS	AJAYAN, P.M. et al; "Carbon nanotubes as removable templates for metal oxide nanocomposites and nanostructures"; <i>Nature</i> , Vol. 375, pp. 564-567.	
	AT	CHOPRA, N.G. et al; "Boron Nitride Nanotubes"; <i>Science</i> ; Vol. 269; 1995; pp. 966-967.	
	AU	DAI, H. et al; "Nanotubes as nanoprobe in scanning probe microscopy"; <i>Nature</i> ; Vol. 384; 1996; pp. 147-150.	
	AV	FELDMAN, Y. et al; "Kinetics of Nested Inorganic Fullerene-like Nanoparticle Formation"; <i>J. Am. Chem. Soc.</i> ; Vol. 120; 1998, pp 4176-4183.	
	AW	FREY, G.L.; "Optical properties of MS2 (M = Mo, W) inorganic fullerene-like and nanotube material optical absorption and resonance Raman measurements"; <i>J. Mater Res.</i> Vol. 13, No. 9, 1998; pp. 2412-2417.	
	AX	GLEMSER, O. "Zur Frage der Wolframblauverbindungen"; <i>J. Mater. Res.</i> 1998; 13, 2412.	
	AT	HARDCASTLE, F.D.; "Determination of the Molecular Structures of Tungstates by Raman Spectroscopy"; <i>Journal of Raman Spectroscopy</i> ; Vol. 26, 1995; pp. 397-405	
	AY	HORSLEY, J.A.; "Structure of Surface Tungsten Oxide Species in the WO3/Al2O3 Supported Oxide System from X-ray Absorption Near-Edge Spectroscopy and Raman Spectroscopy"; <i>J. Phys. Chem.</i> Vol. 91, 1987; pp. 4014-4020.	
	AZ	IGUCHI, E.; "Strain Energy Between CS Planes"; <i>Journal of Solid State Chemistry</i> ; Vol. 23, 1978; pp. 231-239.	
	BA	IJIMA, S. "Helical microtubules of Graphitic carbon"; <i>Nature</i> ; Vol. 354; 1991; pp. 56-58.	
	BB	MARGULIS, L. "Nested fullerene-like structures"; <i>Nature</i> ; Vol. 365, 1993; pp. 113-114.	
	BC	MIYANO, T. et al; "High-Resolution Electron Microscopic Studies of CS Structure in Reduced WO3 Thin Crystals"; <i>Japanese Journal of Applied Physics</i> ; Vol. 22, 1983; pp.863-868.	

Examiner Signature	Date Considered
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Application Number

09/959,664

Filing Date

January 28, 2002

First Named Inventor

R. TENNE et al

Group Art Unit

1754

Examiner Name _____

3853

Attorney Docket Number

TENNE=3

Examiner
Initials*Cite
No.¹

Include name of the author (in CAPITAL LETTERS), title of article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published

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SLOAN, J. et al; "Defect and Ordered Tungsten Oxides Encapsulated Inside 2H-WX2 (X=S and Se) Fullerene-Related Structures"; *Journal of Solid State Chemistry*, Vol. 144, 1999; pp. 100-117.

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SLOAN, J. et al: "Effect of tip shape on surface roughness measurements from atomic force microscopy images of thin films"; *J. Vac. Sci. Technol. B* 13(2), 1995; pp. 344-349.

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